

# 5016C-E61TRG

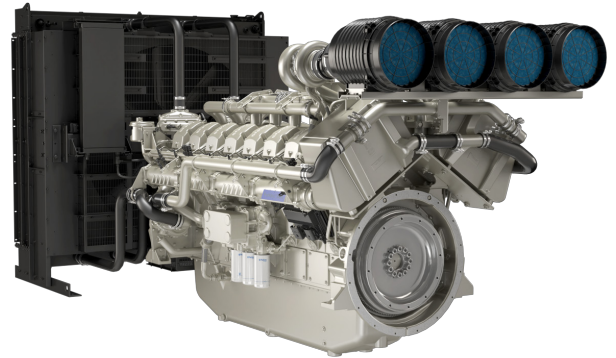
ElectropaK & Electro unit

U.S. EPA Stationary Emergency-Use-Only (Tier 2)

1774-2216 kW @ 1800 rpm (engine gross power)

*The Perkins® 5016C-E61TRG has been designed to offer reliable power for emergency standby and critical applications, including data centres and hospitals among others. Available as either an ElectropaK or an Electro unit, it provides flexibility to meet a range of power generation requirements.*

*Engineered and built specifically for the power generation industry, the Perkins® 5000 Series is a power-packed engine range built to be dependable, versatile and offer lower emissions to meet regulatory standards.*



## Features and benefits

### Maximised productivity

The 5000 Series delivers maximised productivity through outstanding load acceptance, achieving NFPA110 Type 10 and ISO 8528-5 G2 and G3 performance class and deliver high altitude capability. The engine build and performance have been designed from the ground up with ultimate productivity and dependability in mind, so customers can be confident that power will be available when required. They have been tested around the world, in the harshest environments, to deliver performance, no matter the conditions.

### Ease of integration and service accessibility

A single point customer electronics connection supports ease of integration and service accessibility is provided from a single side with two year oil and fuel service intervals.

### Low daily operating costs

Excellent oil consumption through dedicated piston, ring and liner assembly and low fuel consumption deliver minimised daily operating costs.

### Advanced technology

The 5000 Series utilises advanced technology, with full authority electronics, that easily integrate into the customer's chosen telematic solutions and are certified to U.S. EPA Tier 2 emission standards. We offer an optional closed crankcase ventilation system to reduce crankcase emissions further, if required.

## Specification

|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| Configuration                                   | ElectropaK                                 |
| Typical electric output*, kVA (kWe)             | 1969-2500 (1575-2000)                      |
| Cylinders                                       | 16                                         |
| Displacement litres (in <sup>3</sup> )          | 61.1 (3728.6)                              |
| Aspiration                                      | Turbocharged and air-to-water chargecooled |
| Bore and stroke, mm (in)                        | 160 (6.3) x 190 (7.5)                      |
| Combustion system                               | Direct injection                           |
| Compression ratio                               | 13.8:1                                     |
| Aftertreatment                                  | None                                       |
| Total lubricating oil capacity, litres (US gal) | 213 (56.3)                                 |
| Total coolant capacity, litres (US gal)         | 494 (130.5)                                |
| Rotation (viewed from flywheel)                 | Anti-clockwise                             |
| Length x width x height, mm (in)                | 4687 x 2184 x 3735 (184.5 x 86.0 x 147.0)  |
| Weight, kg (lb)                                 | 8359 (18428), dry<br>9075 (20007), wet     |

\* Generator powers are typical and based on typical alternator efficiencies and a power factor (cos  $\theta$ ) of 0.8.

For more information please contact a Perkins distributor: <http://distributorlocator.perkins.com>

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ElectropaK & Electro unit

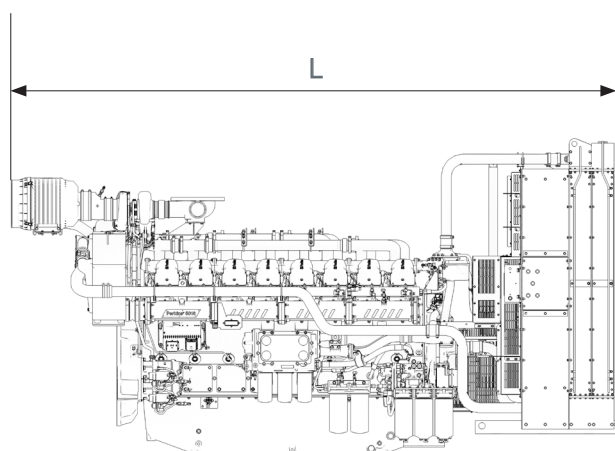
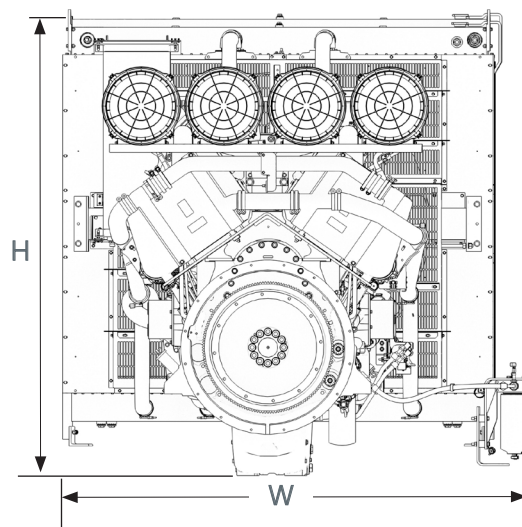
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## Standard equipment

|                                                                    |          |
|--------------------------------------------------------------------|----------|
| Electro unit or ElectropaK                                         | Both     |
| Radiator fitted                                                    | ✓        |
| Fuel filter, engine mounted                                        | ✓        |
| Water separator                                                    | Optional |
| Fuel water sight glass                                             | None     |
| Fuel priming pump (manual/electric)                                | Electric |
| WIF Sensor                                                         | ✓        |
| Fuel cooler                                                        | None     |
| Air filter, engine mounted                                         | ✓        |
| Engine ECM, engine mounted                                         | ✓        |
| Wiring harness to ECM                                              | ✓        |
| Wiring harness (all connectors to single customer interface)       | ✓        |
| Starter motor                                                      | ✓        |
| Battery charging alternator                                        | ✓        |
| Flywheel housing                                                   | ✓        |
| Flywheel                                                           | ✓        |
| Fan                                                                | None     |
| Fan guard                                                          | None     |
| Temperature and oil pressure for automatic stop/alarm configurable | ✓        |

## Dimensions



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## Rating Definitions

### Emergency standby power (ESP):

Limited to 200 hours usage per year with an average load factor of 80 percent of the published ESP rating over each 24 hour period.

### Data centre power (DCP):

Power available for variable or continuous electrical loads in a data centre application. Up to 100 percent load factor of the published DCP power is permitted for unlimited time. An overload of 10 percent is permitted for one hour in every 12 hours of operation. No overload is permitted. DCP power definition relies on ISO8528-1 2018 standard to be followed by generator set manufacturer, and will support Tier I to Tier IV classifications of data centres as per UPTIME institute guidelines.

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